

10/16/2006

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6521430".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:23
L2	3	"7109034".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:23
L3	1595	electrofusion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:23
L4	2028	electrofus\$\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:23
L5	161	electrofusion same (electrode or microelectrode or micro-electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:25
L6	342	electrofusion and (electrode or microelectrode or micro-electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:24
L7	183	electrofus\$\$ same (electrode or microelectrode or micro-electrode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:25
L8	4	electrofus\$\$ same ((electrode or microelectrode or micro-electrode or (capillary adj electrode)) same hollow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:32
L9	13	(electrofus\$\$ or (cell adj fusion)) same ((electrode or microelectrode or micro-electrode or (capillary adj electrode)) same hollow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:37

EAST Search History

L10	65	L7 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:27
L12	7	L9 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:38
L13	0	L12 and (micropositioner or stereotactic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:29
L14	7	L7 and (micropositioner or stereotactic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:29
L16	6	L14 and (liposome or vesicle or protoplast or proteoliposome)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:39
L17	0	electrofus\$\$ same (((electrode or microelectrode or micro-electrode or (capillary adj electrode)) same hollow) same (microchip or chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:37
L18	0	(electrofus\$\$ or (cell adj fusion)) same (((electrode or microelectrode or micro-electrode or (capillary adj electrode)) same hollow) same (microchip or chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:33
L19	2	(electrofus\$\$ or (cell adj fusion)) same (((electrode or microelectrode or micro-electrode or (capillary adj electrode)) same hollow) and (microchip or chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:33
L20	0	L19 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:36
L21	2	L9 and (combinator\$\$ adj synthesis)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:35

EAST Search History

L22	4	L9 and (electroendoosmosis or electrophore\$\$ or Poiseuille)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:36
L23	1	L22 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:36
L24	0	electrofus\$\$ same (((electrode or microelectrode or micro-electrode or micropipette or (capillary adj electrode)) same hollow) same (microchip or chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:37
L25	4	electrofus\$\$ same (((electrode or microelectrode or micro-electrode or micropipette or (capillary adj electrode)) same hollow))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:37
L26	13	(electrofus\$\$ or (cell adj fusion)) same ((electrode or microelectrode or micro-electrode or micropipette or (capillary adj electrode)) same hollow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:40
L27	7	L26 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:42
L28	4	L27 and (liposome or vesicle or protoplast or proteoliposome)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:38
L29	4	L28 and (liposome or vesicle or protoplast or proteoliposome)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:41
L30	2	((electrofus\$\$ or (cell adj fusion)) same ((electrode or microelectrode or micro-electrode or micropipette or (capillary adj electrode)) same hollow)) and ((optical adj trap) or (optical adj trapping))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:40

EAST Search History

L31	25	L7 and ((liposome or vesicle or protoplast or proteoliposome) and (electroporate or dielectrophore\$\$ or fusogenic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:42
L32	2	L7 and ((liposome or vesicle or protoplast or proteoliposome) same(electroporate or dielectrophore\$\$ or fusogenic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:42
L33	8	L31 and @ad<"19990730"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/16 13:42

Dialog 10/031,410
10/16/2006 LLM

? d s

Set	Items	Description
S1	45495	S (ELECTROFUS?? OR (CELL (W) FUSION))
S2	124	(ELECTROFUS?? AND (CELL (W) FUSION)) FROM 5, 24, 28, 34, 35, 40, 41, 45, 50, 65, 71, 73, 91, 94, 98, 110, 135, 136, 143, 144, 155, 164, 172, 185, 357, 369, 370, 391, 434, 467
S3	101	S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) (ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE))
S4	1	S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) HOLLOW)
S5	1	S (ELECTROFUS?? OR (CELL (W) FUSION)) AND ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) HOLLOW)
S6	0	S S3 AND (MICROPOSITIONER OR STEREOTACTIC)
S7	8	S S1 AND (MICROPOSITIONER OR STEREOTACTIC)
S8	18	S S3 AND (LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME)
S9	0	S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME) (S) (ELECTROPORATE OR DIELECTROPHORE?? OR FUSOGENIC))
S10	0	S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME) AND (ELECTROPORATE OR DIELECTROPHORE?? OR FUSOGENIC))
S11	0	S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) (MICROCHIP OR CHIP))
S12	0	S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) AND (MICROCHIP OR CHIP))
S13	0	S (ELECTROFUS?? OR (CELL (W) FUSION)) AND ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) (MICROCHIP OR CHIP))
S14	0	S S3 AND (ELECTROENDOOSMOSIS OR ELECTROPHORE?? OR POISEUILLE OR (COMBINATOR?? (W) SYNTHESIS))
S15	0	S S3 AND ((OPTICAL (W) TRAP) OR (OPTICAL (W) TRAPPING))
S16	29	S S1 AND ((OPTICAL (W) TRAP) OR (OPTICAL (W) TRAPPING))
S17	19	RD (unique items)
S18	1	S S17 AND (ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE))

?

[File 185] **Zoological Record Online(R)** 1978-2006/Oct
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[File 357] **Derwent Biotech Res.** 1982-2006/Oct W3
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[File 369] **New Scientist** 1994-2006/Aug W3
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[File 370] **Science** 1996-1999/Jul W3
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? s (electrofus?? or (cell (w) fusion))

Processing

Processing

Processing

	616	ELECTROFUS??
	14443209	CELL
	842991	FUSION
	45003	CELL(W) FUSION
S1	45495	S (ELECTROFUS?? OR (CELL (W) FUSION))

? S (ELECTROFUS?? and (CELL (W) FUSION))

Processing

Processing

>>>E:java.net.SocketTimeoutException: Read timed out

? S (ELECTROFUS?? OR (CELL (W) FUSION))(s) (electrode or microelectrode or
micro-electrode or (capillary (w) electrode))

Processing

Processing

	616	ELECTROFUS??
	14443209	CELL
	842991	FUSION
	45003	CELL(W) FUSION
	503003	ELECTRODE
	44583	MICROELECTRODE
	144	MICRO-ELECTRODE
	481548	CAPILLARY
	503003	ELECTRODE
	160	CAPILLARY (W) ELECTRODE

S3 101 S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) (ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE))

? S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (s) hollow)

Processing

Processing

616	ELECTROFUS??
14443209	CELL
842991	FUSION
45003	CELL (W) FUSION
503003	ELECTRODE
44583	MICROELECTRODE
144	MICRO-ELECTRODE
481548	CAPILLARY
503003	ELECTRODE
160	CAPILLARY (W) ELECTRODE
97933	HOLLOW

S4 1 S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) HOLLOW)

? t s4/medium

4/3/1 (Item 1 from file: 357) [Links](#)

Derwent Biotech Res.

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0063955 DBA Accession No.: 87-08303 PATENT

High-voltage biological macromolecule transfer system

- with adjustable amplitude and number of pulses; useful for cell fusion and transfer of DNA

Patent Assignee: Wong D T 1987

Patent Number: US 4663292 **Patent Date:** 870505 **WPI Accession No.:** 87-143200 (8720)

Priority Application Number: US 684599 **Application Date:** 841221

National Application Number: US 684599 **Application Date:** 841221

Language: English

```

? S (ELECTROFUS?? OR (CELL (W) FUSION))and ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) HOLLOW)
Processing
    616    ELECTROFUS??
14443209  CELL
    842991 FUSION
    45003  CELL(W) FUSION
    503003 ELECTRODE
    44583  MICROELECTRODE
    144    MICRO-ELECTRODE
    481548 CAPILLARY
    503003 ELECTRODE
    160    CAPILLARY (W) ELECTRODE
    97933  HOLLOW
    944    (((ELECTRODE OR MICROELECTRODE) OR MICRO-ELECTRODE) OR
CAPILLARY (W) ELECTRODE) (S) HOLLOW
S5      1    S (ELECTROFUS?? OR (CELL (W) FUSION))AND ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) HOLLOW)

? s s3 and (micropositioner or stereotactic)
    101    S3
    231    MICROPOSITIONER
    42878  STEREOTACTIC
S6      0    S S3 AND (MICROPOSITIONER OR STEREOTACTIC)

? S S1 AND (MICROPOSITIONER OR STEREOTACTIC)
    45495  S1
    231    MICROPOSITIONER
    42878  STEREOTACTIC
S7      8    S S1 AND (MICROPOSITIONER OR STEREOTACTIC)

? s s3 and ( liposome or vesicle or protoplast or proteoliposome)
    101    S3
    95000  LIPOSOME
    193333 VESICLE
    50655  PROTOPLAST
    2785   PROTEOLIPOSOME
S8      18   S S3 AND ( LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME)

? S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME) same(electroporate or
dielectrophore$$ or fusogenic))
>>>W: Invalid syntax
>>>E: There is no result

? S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME) (s)(electroporate or
dielectrophore?? or fusogenic))
    101    S3
    95000  LIPOSOME
    193333 VESICLE
    50655  PROTOPLAST
    2785   PROTEOLIPOSOME
    161    ELECTROPORATE
    308    DIELECTROPHORE??
    7041   FUSOGENIC
    1224   (((LIPOSOME OR VESICLE) OR PROTOPLAST) OR
PROTEOLIPOSOME) (S) ((ELECTROPORATE OR DIELECTROPHORE??) OR FUSOGENIC)
S9      0    S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME)
(S) (ELECTROPORATE OR DIELECTROPHORE?? OR FUSOGENIC))

? S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME) and(ELECTROPORATE OR

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DIELECTROPHORE?? OR FUSOGENIC))

101 S3
95000 LIPOSOME
193333 VESICLE
50655 PROTOPLAST
2785 PROTEOLIPOSOME
161 ELECTROPORATE
308 DIELECTROPHORE??
7041 FUSOGENIC

S10 0 S S3 AND ((LIPOSOME OR VESICLE OR PROTOPLAST OR PROTEOLIPOSOME)
AND(ELECTROPORATE OR DIELECTROPHORE?? OR FUSOGENIC))

? s (electrofus?? or (cell (w) fusion)) (s) ((electrode or microelectrode or
micro-electrode or (capillary (w) electrode)) (s) (microchip or chip))

Processing
Processing

616 ELECTROFUS??
14443209 CELL
842991 FUSION
45003 CELL(W) FUSION
503003 ELECTRODE
44583 MICROELECTRODE
144 MICRO-ELECTRODE
481548 CAPILLARY
503003 ELECTRODE
160 CAPILLARY(W) ELECTRODE
11290 MICROCHIP
144667 CHIP

S11 0 S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) (MICROCHIP OR CHIP))

? S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) and (MICROCHIP OR CHIP))

Processing

616 ELECTROFUS??
14443209 CELL
842991 FUSION
45003 CELL(W) FUSION
503003 ELECTRODE
44583 MICROELECTRODE
144 MICRO-ELECTRODE
481548 CAPILLARY
503003 ELECTRODE
160 CAPILLARY(W) ELECTRODE
11290 MICROCHIP
144667 CHIP

S12 0 S (ELECTROFUS?? OR (CELL (W) FUSION)) (S) ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) AND (MICROCHIP OR CHIP))

?

? S (ELECTROFUS?? OR (CELL (W) FUSION)) and ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) (MICROCHIP OR CHIP))

Processing
Processing

616 ELECTROFUS??
14443209 CELL
842991 FUSION
45003 CELL(W) FUSION
503003 ELECTRODE
44583 MICROELECTRODE
144 MICRO-ELECTRODE

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481548  CAPILLARY
503003  ELECTRODE
160     CAPILLARY(W)ELECTRODE
11290  MICROCHIP
144667  CHIP
2898   (((ELECTRODE OR MICROELECTRODE) OR MICRO-ELECTRODE) OR
CAPILLARY(W)ELECTRODE) (S) (MICROCHIP OR CHIP)
S13     0   S (ELECTROFUS?? OR (CELL (W) FUSION)) AND ((ELECTRODE OR MICROELECTRODE OR
MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE)) (S) (MICROCHIP OR CHIP))

?
? s s3 and (electroendoosmosis or electrophore?? or Poiseuille or (combinator?? (w)
synthesis))
101     S3
15      ELECTROENDOOSMOSIS
72558   ELECTROPHORE??
7478    POISEUILLE
20218   COMBINATOR??
6143579 SYNTHESIS
43      COMBINATOR??(W)SYNTHESIS
S14     0   S S3 AND (ELECTROENDOOSMOSIS OR ELECTROPHORE?? OR POISEUILLE OR
(COMBINATOR?? (W) SYNTHESIS))

? s s3 and ((optical (w) trap) or (optical (w) trapping))
101     S3
1609125 OPTICAL
194908  TRAP
2779    OPTICAL(W)TRAP
1609125 OPTICAL
194227  TRAPPING
2147    OPTICAL(W)TRAPPING
S15     0   S S3 AND ((OPTICAL (W) TRAP) OR (OPTICAL (W) TRAPPING))

? S S1 AND ((OPTICAL (W) TRAP) OR (OPTICAL (W) TRAPPING))
45495   S1
1609125 OPTICAL
194908  TRAP
2779    OPTICAL(W)TRAP
1609125 OPTICAL
194227  TRAPPING
2147    OPTICAL(W)TRAPPING
S16     29  S S1 AND ((OPTICAL (W) TRAP) OR (OPTICAL (W) TRAPPING))

? rd
>>>W: Duplicate detection is not supported for File 391.
Records from unsupported files will be retained in the RD set.
S17     19  RD (UNIQUE ITEMS)

? s s17 AND ((ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W)
ELECTRODE))
>>>W: Unmatched parentheses
>>>E: There is no result

? s s17 AND (ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE))
19      S17
503003  ELECTRODE
44583   MICROELECTRODE
144     MICRO-ELECTRODE
481548  CAPILLARY
503003  ELECTRODE
160     CAPILLARY(W)ELECTRODE

```

S18 1 S S17 AND (ELECTRODE OR MICROELECTRODE OR MICRO-ELECTRODE OR (CAPILLARY (W) ELECTRODE))

? t s18/medium

18/3/1 (Item 1 from file: 73) [Links](#)

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10974383 EMBASE No: 2001018546

Microfluidic device for combinatorial fusion of liposomes and cells

Stromberg A.; Karlsson A.; Ryttsen F.; Davidson M.; Chiu D.T.; Orwar O.

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Analytical Chemistry (ANAL. CHEM.) (United States) 01 JAN 2001 , 73/1 (126-130)

CODEN: ANCHA **ISSN:** 0003-2700

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